



Environment Monitoring Report

May 2014

EPA Licence number: 1511

PO Box 123
Bega NSW 2550
Australia
Reception Ph: +61-2-6491 7777
Environment Line Ph: +61-2-6491 7691

Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Air	EPA 12-Air emissions monitoring, back up boiler PPU				0.35 g/m3	Yearly	
		Lab report number					
		Sampled date					
		Lab received date					
		Report received date					
	Summary		Testing is conducted yearly and is not required this month				
	EPA 22-Air emissions monitoring, main boiler PPU					0.35 g/m3	Yearly
		Lab report number					
		Sampled date					
		Lab received date					
Report received date							
Summary		Testing is conducted yearly and is not required this month					



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Air	EPA 24 - Air emissions monitoring, gas boiler stack DPU				0.35 g/m3	Yearly	
		Lab report number					
		Sampled date					
		Lab received date					
		Report received date					
	Summary		Testing is conducted yearly and is not required this month				
	EPA 7- Air emissions monitoring, DPU boiler Stack					0.25 g/m3	Yearly
		Lab report number					
		Sampled date					
		Lab received date					
Report received date							
Summary		Testing is conducted yearly and is not required this month					



BEGA CHEESE
SINCE 1899

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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Air	EPA 8-Air emissions monitoring, Whey plant stack DPU				0.25 g/m3	Special frequency 2
		Lab report number				
		Sampled date				
		Lab received date				
		Report received date				
<p><u>Summary</u> Testing is conducted yearly and is not required this month</p>						



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Noise	L3.2 - Noise emissions during night time (10pm to 7am) at the most affected residential property				LA10(15 minutes) 45dB (A)	Yearly	
		Noise	47	dB(A)			
		Lab report number	141128				
		Sampled date	31/05/2014				
		Report received date	4/06/2014				
	Summary						
	Bega Cheese implemented stage 1 noise mitigation works worth \$131,000 which achieved a 2 dB(A) drop on the previous year's noise level. Stage 2 mitigation options are being investigated for further noise reduction.						
	L3.3 - Noise emissions during day time at the most affected residential property					LA1(15 minute) 53 dB (A)	Yearly
		Noise	47	dB(A)			
		Lab report number	141128				
Sampled date		31/05/2014					
Report received date		4/06/2014					
Summary							



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency	
Water & Land	EPA 1 – Volume monitoring from DPU to utilisation areas - The Ranch, Wet Weather Storage Dam, Angeldale Apps Farm West, Apps Farm East, Apps Flat, Rockleigh, Ubrihien & Factory Flats				none	Daily	
		Irrigation Days	31				
		Volume (Average)	1564	kL/day			
		Volume (Min-Max)	496 - 1564	kL/day			
		Sampled date	31/05/2014				
	<u>Summary</u>						
	EPA 23-Environmental monitoring subsurface drainage sump at WWSD					none	Quarterly
		Biochemical oxygen demand	5	mg/L			
		Conductivity	1300	µS/cm			
		Nitrate	0.09	mg/L			
PH		6.2					
Lab report number		N047156					
Sampled date		28/05/2014					
Lab received date		29/05/2014					
Report received date		10/06/2014					
<u>Summary</u>							



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 25 - 'Control' Groundwater monitoring point at corner of Daisy Hill & Buckajo Rd				none	Quarterly
		Conductivity	870	µS/cm		
		Depth	2.70	m		
		Nitrate	0.05	mg/L		
		Nitrogen (total)	1.9	mg/L		
		Phosphorus (total)	0.56	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N047127			
		Sampled date	27/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 26 - Groundwater monitoring point at 'The Ranch' fenceline				none	Quarterly
		Conductivity	1200	µS/cm		
		Depth	3.80	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	1.2	mg/L		
		Phosphorus (total)	0.49	mg/L		
		PH	6.6			
		Available phosphorus	0.49	mg/L		
		Lab report number	N047127			
		Sampled date	27/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 27 - Groundwater monitoring point at Bega River crossing, Factory Flats				none	Quarterly
		Conductivity	1100	µS/cm		
		Depth	5.75	m		
		Nitrate	2.5	mg/L		
		Nitrogen (total)	4.1	mg/L		
		Phosphorus (total)	0.52	mg/L		
		PH	6.2			
		Available phosphorus	0.004	mg/L		
		Lab report number	N047127			
		Sampled date	27/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 28 - Groundwater monitoring point at Apps Farm near bridge				none	Quarterly
		Conductivity	1800	µS/cm		
		Depth	4.90	m		
		Nitrate	0.02	mg/L		
		Nitrogen (total)	2	mg/L		
		Phosphorus (total)	0.4	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N047127			
		Sampled date	28/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 29 - Groundwater monitoring point at Apps Farm, east river flats				none	Quarterly
		Conductivity	1300	µS/cm		
		Depth	5.80	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	0.92	mg/L		
		Phosphorus (total)	0.1	mg/L		
		PH	6.4			
		Available phosphorus	0.1	mg/L		
		Lab report number	N047127			
		Sampled date	27/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 30 - Groundwater monitoring point at Apps/Ubrihien farm south				none	Quarterly
		Conductivity	160	µS/cm		
		Depth	5.70	m		
		Nitrate	0.01	mg/L		
		Nitrogen (total)	0.92	mg/L		
		Phosphorus (total)	0.1	mg/L		
		PH	6.6			
		Available phosphorus	0.004	mg/L		
		Lab report number	N047127			
		Sampled date	28/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 31 - 'Control' Groundwater monitoring point at Ubrihien farm west				none	Quarterly
		Conductivity	910	µS/cm		
		Depth	6.00	m		
		Nitrate	1.3	mg/L		
		Nitrogen (total)	1.5	mg/L		
		Phosphorus (total)	0.52	mg/L		
		PH	5.7			
		Available phosphorus	0.004	mg/L		
		Lab report number	N047127			
		Sampled date	28/05/2014			
		Lab received date	29/05/2014			
		Report received date	6/06/2014			
		<u>Summary</u>				



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 5-Effluent quality monitoring, DPU holding tanks 1 & 2				none	Monthly
		Biochemical oxygen demand	1700	mg/L		
		Conductivity	2339.5	µS/cm		
		Faecal coliforms	2400000	cfu/100 ml		
		Nitrate	17	mg/L		
		Nitrogen (total)	120	mg/L		
		Phosphorus (total)	45	mg/L		
		Sodium	540	mg/L		
		Sodium adsorption ratio	15			
		Total suspended solids	670	mg/L		
		PH	5.13			
		Lab report number	N047197			
		Sampled date	31/05/2014			
		Lab received date	3/06/2014			
		Report received date	12/06/2014			
<u>Summary</u>						



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Monitoring Type	Monitoring Point	Pollutant	Measurements	Unit	Limit	Frequency
Water & Land	EPA 6-Effluent quality & discharge volume monitoring from WWSD holding tank to utilisation areas 'The Ranch' and 'Grevillea'				none	Special frequency 1
		Biochemical oxygen demand	1400	mg/L		
		Conductivity	4000	µS/cm		
		Faecal coliforms	2400000	cfu/100 ml		
		Nitrate	1	mg/L		
		Nitrogen (total)	140	mg/L		
		Phosphorus (total)	38	mg/L		
		Sodium	480	mg/L		
		Sodium adsorption ratio	17			
		Total suspended solids	100	mg/L		
		PH	6.8			
		Irrigation Days	7			
		Volume (Average)	735	kL/day		
		Volume (Min-Max)	260 - 1974	kL/day		
		Lab report number	N045598			
		Sampled date	6/05/2014			
		Lab received date	7/05/2014			
		Report received date	13/05/2014			
		<u>Summary</u>				
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Glossary

Abbreviation	Description
DPU	Dairy Processing Unit, Lagoon St
Lab	Laboratory
PPU	Processing & Packaging Plant, Ridge St
special frequency 1	Monthly sampling during discharge from point 6 during any month that discharge occurs
special frequency 2	Annual sampling of two samples: sample 1 collected no more than 1 hour before the stack is washed, and sample 2 collected no more than 1 hour after the stack is washed.
WWSD	Wet weather storage dam